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A. S. : O. N. :

Secret Of Nature

Greatest Puzzle Is The Way Diamonds Are Formed

diamond, of all gems, is the greatest puzzle. It has good scientists of many lands into a tangle of wits with nature. Up to present nature has always won. As discovered how to make other gems, like the pearl and ruby, but no man can make a real diamond. Physicists have, they think, just what a dis-

pure carbon—but the product of nature to turn a bit of clear, sparkling crystal into nature's secret.

Use a match and let the flame for a moment well down the stick. Take the burnt end and stick it on a piece of paper until you have a pinch of black carbon. A pinch of carbon in your eyes are holding the same magic that you cherish as a diamond.

But nature, the great alchemist, has transmuted black soot into the purest white gem.

A physician knows that if he takes carbon powder and subjects it to enough heat he can melt, or fuse—and also that if it is subjected to great enough pressure while it will change into an octahedron.

Man has created in the oven great heat but required to melt an appreciable amount of carbon is thousands of times more than the heat required to melt sugar.

To melt sugar and let "rock" form into clear prismatic crystals, we need heat and pressure, but we can't create enough pressure to melt carbon. To crystallize gem-size diamonds, we use small scale pinhead diamonds as seeds and make them grow on made by encasing a ball of steel ball around powdered charcoal. The ball is in an electric furnace that is red hot and then we dump it into a tank of ice water. The water cools the steel so suddenly that the steel shatters and the diamond is left trapped

It contracts with tremendous pressure around the carbon content, sometimes a minute diastyl is formed.

They cannot make big diamonds. They have to be dug out of the earth in the vicinity of volcanic natural ovens in which nature heated them) and only a very few of these pipes have ever been found. First in India, then in Africa, Brazil, then in British Guiana has been found. Once only in the United States, in Arkansas, diamonds have appeared in small sizes.

ities. It seems that nature had a hard time making this gem. She makes gold, platinum, iron, silver in thousands—but the sources of diamonds can be counted on one hand.—La Varre in the Milwaukee

Quality In Produce
Try To Maintain High Standards For Benefit Of Canadian Consumers
 The great bulk of produce is the domestic rather than on the export market, close co-operation between government services and producers in maintaining high quality is for the benefit of Canadian consumers is desirable, Agriculture Minister Mr. Gardiner told the Canadian Agriculture Association convention in Winnipeg. Mr. Gardiner said the association has endeavored to maintain high standards of quality in produce.

pressed satisfaction at the success of a campaign carried on through the media to establish a national demand for graded poultry. The department sponsored an advertising campaign to tell consumers how to select poultry from the various grades and the importance of the role of retailers and wholesalers in the process. The result was one of the most successful advertising programs ever experienced.

...this country," he said. The United Kingdom and the United States in 1954 had helped producers in Canada but the return from these sources was less than from the domestic market.

Real Service
My was seen sitting in a cab
of Frank Brothers one day,
getting curb service from
man. She was in the front

He kept bringing out pairs until finally she found something that suited her, according to a story in *New Yorker*.

States, but it has fewer in-
te than the state of Cali

DIXIE is always fresh because you can't use it /

PLUG SMOKING TABOO

WORLD HAPPENINGS BRIEFLY TOLD

Thirty more persons were killed in the United Kingdom from road accidents in 1937 than in 1936.

Parliament announced she would demand complete neutrality for herself, involving freedom from League of Nations membership obligations.

The baby pictures of The Netherlands, born in Congo Province, Jan. 1937, was named Beatrix Wilhelmina Armand.

Canadian building contracts awarded in January totaled \$14,600,000, 38 per cent over the total of \$10,522,000 in January 1937, according to Maclean Building Records Ltd.

A total of 1,174 Manitoba families were established on the land by the rural rehabilitation commission between May, 1933 and Dec. 31, 1937. It is announced, of these only 273 families have left the farms.

Unemployment among engineers represented in the Engineering Institute of Canada practically has disappeared, G. J. Desautels, Ottawa, retiring president, told the annual conference.

Prime Minister Mackenzie King announced a by-election would be held in January 1938 in the federal constituency of Edmonton East to name a member of the late Dr. William Hall, Social Credit leader, who died recently.

Cash amounting to \$2,033,576 has been donated to the Canadian children's fund by the Canadian chamber of commerce, and the fund is being used to help control malaria.

On national forest ranges, says the Forest Service, and for live stock is being used to help control malaria.

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What Prediction Gives Four Reasons For Possibility Of Great Surplus

Four reasons are advanced by the secretariat of the world, advanced countries for the possibility of a great surplus in wheat production in 1938 with respect to the needs of 1937.

The prediction is contained in a report, entitled the "International Wheat Situation" issued by the secretariat. It is based on the assumption that weather conditions will be average, and harvests will be reported summarized the four reasons:

1. Soil in the spring of both Canada and the United States now contains much more moisture than in any recent year.

2. Conditions of the United States winter wheat crop on Dec. 1, 1937, were estimated officially at 1,137 per cent, compared with 75.4 per cent in 1936, so improvement in the United States spring wheat area is not offset by a deterioration in the winter wheat area.

3. The new crop in European exporting countries entered the winter in excellent condition and now has a good start on the stocks.

4. Present conditions of winter wheat in most European countries are good, and the weather is favorable for high yields.

The report forecasts accumulation during the next few years of another world wheat surplus such as that which occurred in 1937, when world production of 3,880,000,000 bushels was compared with a world consumption of 3,400,000,000 bushels.

"There is no doubt," says the report, "consumption of wheat would have been higher in the past decade, but it is not likely that European countries of the population are able to out-pace the increase in supply."

The report also states that the world wheat surplus is not likely to be as large as that of 1937, but it is not likely that European countries of the population are able to out-pace the increase in supply.

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Have Many Engagements This Will Be Daily Year For The King And Queen

The information that the King will formally open the 1938 season on May 3 adds another outstanding national occasion to the list of 1938.

Another which according to present arrangements will fall in the month of May is the visit to Manchester to open the 17,000,000 extension of the Manchester shipyard.

This is only one of a number of engagements the King will fulfill while in London about the middle of May.

Derby has been entrusted with the arrangement of a tour of the provinces by the King and Queen.

Her Majesty, like a number of engagements during the year which will be of special general interest, is the christening and launching of the Queen Mary's state ship.

The event will take place about September. The date is a question of the adequate time for the huge vessel's unloading.

With no less than six months to go, the King and Queen will have to make so much time, last year, to interfere with his program for 1938.

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Prison To Be Demolished Dartmouth Was Erected In England Over 130 Years Ago

English prisons are not doing so much business as they used to be, owing to the number of persons qualifying for admission having fallen off.

As a result, the Dartmouth prison is to be closed and more modern (type built). One of the first to be demolished is the Dartmouth prison, which was built in 1760.

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Turner Valley Oil Oil Production In Turner Valley Has Potential Output Of 25,000

Barrelle Daily

Oil reserves in the Turner Valley are now obtaining their crude oil from Alberta. This has been a considerable increase over the production of refined products.

Alberta oil producers have now started for an increase in production of refined products. This is due to the fact that the Turner Valley is now obtaining its crude oil from Alberta.

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TRY KRUSCHEN FREE TRIAL OFFER NOW ON

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